A 0.5/

Approved for use through 09/30/00. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

der the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 9080-016-999 Total Pages 276

First Named Inventor or Application Identifier

Jonathan A. Usuka, et al.

Express Mail Label No. EL 340 685 029 US

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.				A	Assistant Commissioner for Patents ADDRESS TO: Box Patent Application Washington, DC 20231			
1. 🛭		ansmittal Form		6. 🗆	Microfiche Computer Program (Appendix)			
2. 0	Specif		/ Pages <u>66</u>]	7. 🗆	Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)			
		riptive title of the Invention Reference to Related Applications		a.	□ Computer Readable Copy			
		ment Regarding Fed sponsored R&D		b.	□ Paper Copy (identical to computer copy)			
	-Refer	ence to Microfiche Appendix						
	-Background of the Invention -Brief Summary of the Invention		c. Statement verifying identity of above copies '					
			ACCOMPANYING APPLICATION PARTS					
	-Brief	f Description of the Drawings (if filed)			ACCOMM ANTING ATTEICATION FARTS			
99. 	-Detai	led Description of the Invention (including drawings	wings, if filed)		Assignment Papers (cover sheet & document(s))			
	-Claim	act of the Disclosure		9. 🗆	37 CFR 3.73(b) Statement			
3.	Drawi	ng(s) (35 USC 113) [Tota	Sheets 15]	10. 🗆	English Translation Document (if applicable)			
3. § 4. §			Sheets 2	1	Information Disclosure Statement (IDS)/PTO-1449 Citations			
-	i. □ Ne	wly executed (original or copy)		12. 🗆	12. □ Preliminary Amendment			
Ť.		Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed)			Return Receipt Postcard (MPEP 503) (Should be specifically itemized)			
į,	e##	[Note Box 5 below]			Applicant claims Small Entity status, see 37 C.F.R. §			
Gun	ij i. □	DELETION OF INVENTORS(S)		1.27				
THE CHIEF		Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33 (b).			15. □ Certified Copy of Priority Document(s) (if foreign priority is claimed)			
ď.	5. Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.			16. ☑ Other: Submission of Compact Disc 2 Compact Discs				
17.		ITINUING APPLICATION, check appropriate box and	d supply the real	isite info	ormation:			
	□ Conti				ration No: 09/737,918 filed December 15, 2000 .			
		18. COF	RESPONDENCE	ADDRES	ss			
Customer Number: 24341					r code label here) or □ Correspondence address below			
NAM	E							
ADD	RESS							
CITY			STATE		ZIP CODE			
COUNTRY			TELEPHONE	1	FAX			
		<u> </u>		<u> </u>				

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

The PTO did	not receive the following Return post card

PENNIE & EDMONDS LLP

COUNSELLORS AT LAW 3300 Hillview Avenue Palo Alto, CA. 94304

ATTORNEY DOCKET NO. 9080-016-999

Date: December 11, 2001

Assistant Commissioner for Patents Box PATENT APPLICATION Washington, D.C. 20231

Sir:

The following utility patent application is enclosed for filing:

Applicant(s): Jonathan A. Usuka, Andrew Grupe and Gary Allen

Executed on: Unexecuted

Peltz

Title of Invention:

SYSTEM AND METHOD FOR PREDICTING CHROMOSOMAL REGIONS THAT CONTROL

PHENOTYPIC TRAITS

PATENT APPLICATION FEE VALUE

RTFP:						
TYPE	NO. FILED	LESS	EXTRA	EXTRA RATE		FEE
Total Claims	71	-20	51	\$18.00 each	\$	918.00
Independent	10	-3	7	\$84.00 each	\$	588.00
5	Minimum Fee				\$	740.00
	Multiple Dependency Fee If Applicable (\$280.00)			dency Fee 280.00)	\$	0.00
7. III	Total					2,246.00
ent ent	Applicant qualifies for the 50% Reduction for Independent Inventor, Nonprofit Organization or Small Business Concern				- \$	0.00
Total Filing Fee					\$	2.246.00

- DO NOT PUBLISH. I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).
- □ Priority of application no. filed on in is claimed under 35 U.S.C. § 119.
- The certified copy of the priority application has been filed in application no. filed
- Amend the specification by inserting before the first line the following sentence: This is a continuation-in-part of application no. filed.

Please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150. A copy of this sheet is

enclosed.

espectfully submitted,

24,615

(Reg No.)

PENNIE & EDMONDS LLP

Francis E. Morris

Enclosure

Express Mail No.: <u>EL 340 685 029 US</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Jonathan Usuka et al.

Serial No.: To be assigned Group Art Unit: To be assigned

Filing Date: On even date herewith Examiner: To be assigned

For: SYSTEM AND METHOD FOR Attorney Docket No.: 9080-016-999

PREDICTING CHROMOSOMAL REGIONS THAT CONTROL PHENOTYPIC TRAITS

SUBMISSION OF COMPACT DISC

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In connection with the above-identified application, Applicants submit herewith one compact disc ("Copy 1") and a copy of the compact disc ("Copy 2") pursuant to 37 C.F.R. §§ 1.52(e)(3)(ii). "Copy 1" and "Copy 2" are identical. Applicants respectfully request the entry of the compact disc into the file. The machine format of each compact disc is IBM-PC, and the operating system compatibility is MS-DOS and MS-Windows.

The size of the files contained on the compact disc, their date of creation, their time of creation, and their name are found in the table below. In the table, each row represents a file, the size of the file in bytes is provided in column one, columns two and three respectively represent the date and time of file or directory creation while the fourth column represents the name of the file or directory.

Table 1. Contents of the Computer Program Listing Appendix

Size	Date of Creation	Time of Creation	File Name
32,366	12-10-01	3.35pm	Digidisease.pl
33,987	12-10-01	3:36pm	Display_dev.pm
11,837	12-10-01	3:36pm	Input_output_dev.pm
6,583	12-10-01	3:36pm	Locus_matrix.pl
5,141	12-10-01	3.35pm	Matrix_generator.pl

No fees are believed due in connection with this submission. However, if it is

determined that additional fees are due, please charge them to Pennie & Edmonds LLP Deposit Account No. 16-1150. A copy of this sheet is enclosed for accounting purposes.

Respectfully submitted,

Date: <u>December 11, 2001</u>

Francis E. Morris

(Reg. No. 24,615)

PENNIE & EDMONDS LLP

3300 Hillview Avenue

Palo Alto, California 94304

(650) 493-4935

Enclosures